

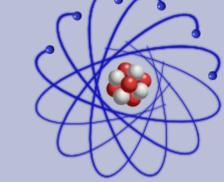
Update On Scientific Linux

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HEPIX Spring 2010

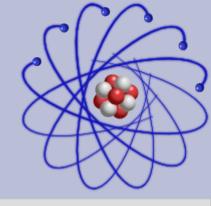
April 21, 2010



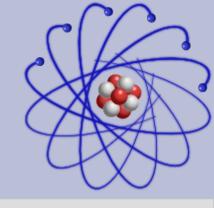
Witty Comment

- Linux is like a wigwam: no gates, no windows and Apache inside.
- "We all know Linux is great...it does infinite loops in 5 seconds." -- Linus

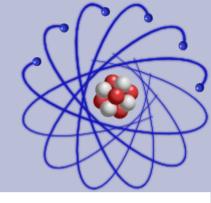
Scientific Linux



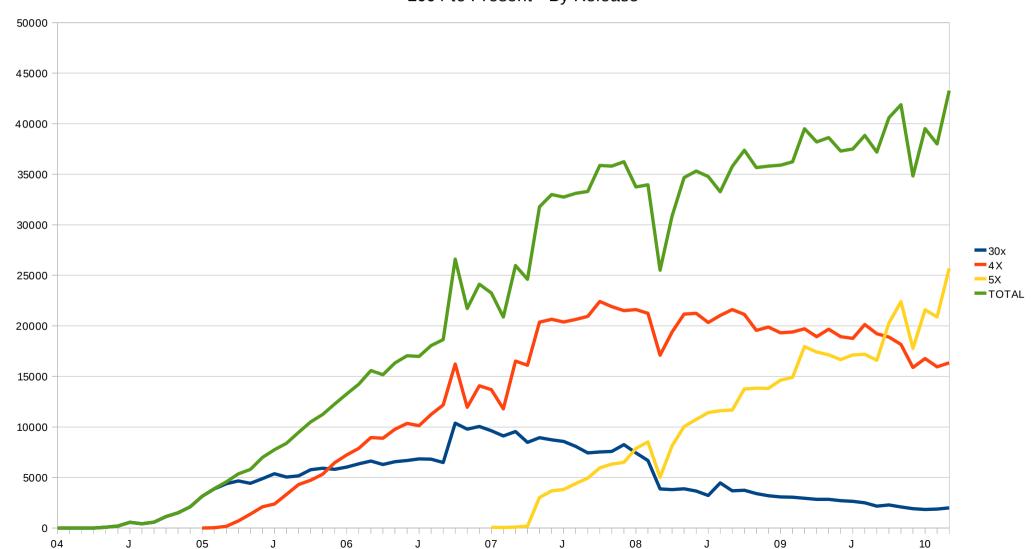
- Presentation Overview
 - The last six months
 - What we are currently working on
 - What we see in the future
 - Plenary Discussion

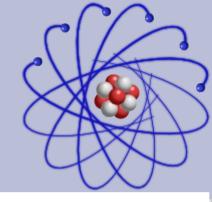


- The following statistics were gathered from ftp.scientificlinux.org log files
 - These numbers are the minimum. We know that they are higher.
 - These numbers are based on the yum and apt access to the errata
 - In 2010 we started counting the machines that download the distro mirrorlists. We do not know the architecture of these machines, so they have been labeled as "noarch"
 - We currently have 30 public mirrors, and know of 201 sites mirroring us. These statistics do not represent any of the mirror sites.

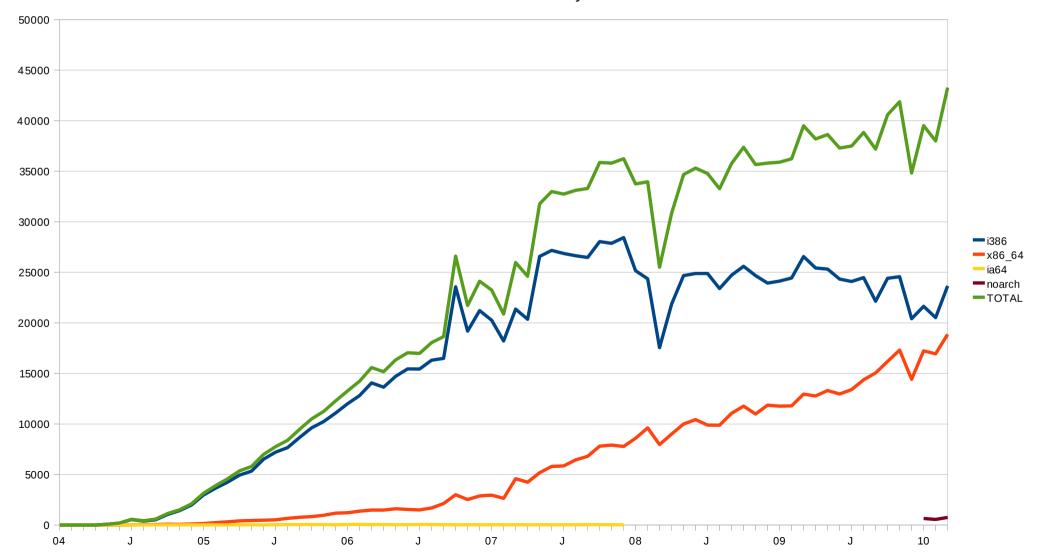


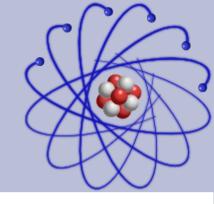
2004 to Present - By Release



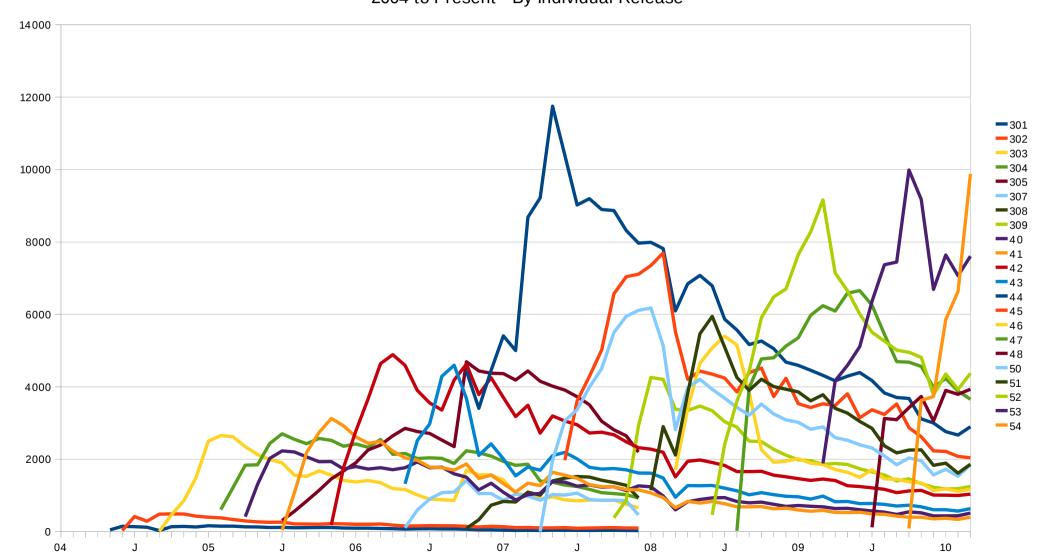


2004 to Present - By Arch



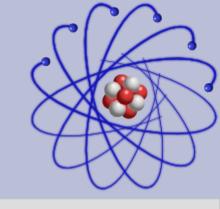


2004 to Present - By Individual Release

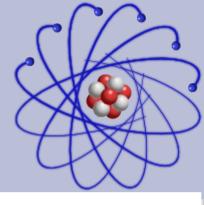


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The Past Six Months

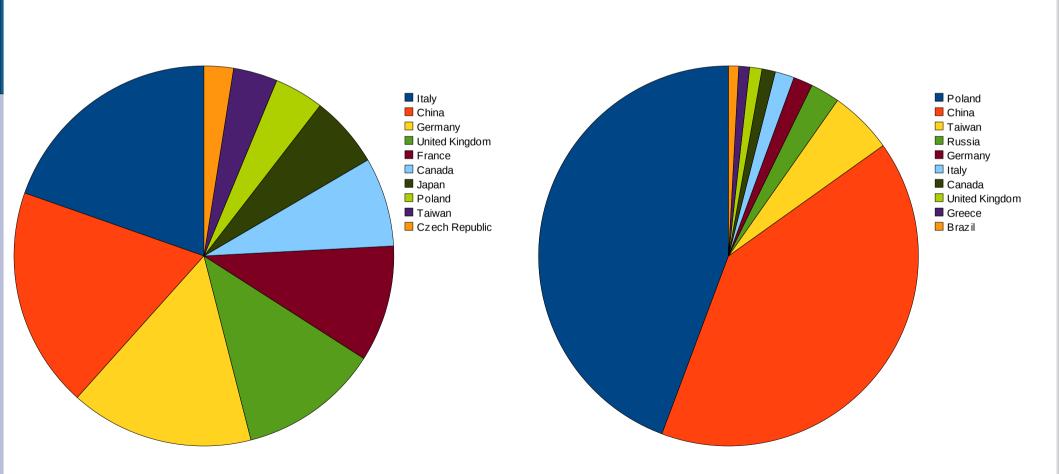


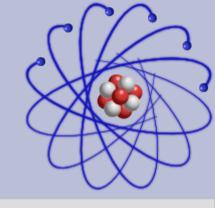
- The following charts are based on the number of files, and/or the number of megabytes downloaded from http://ftp.scientificlinux.org
- Past graphs were from ftp not http
- Networks in the US are not counted
- Networks that might be in several countries, such a .org or .net have been taken out as well.
- This isn't to prove anything, these charts are made just for fun.



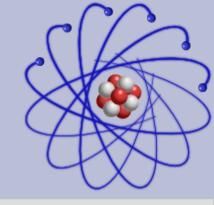


Top Downloads by Megabytes
March 2010

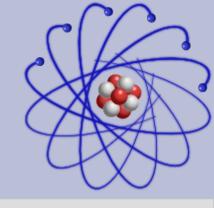




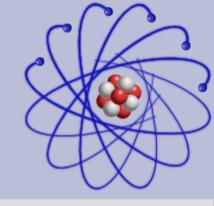
- S.L. 5.4 released November 2009
 - For i386 and x86_64
 - Programs that were added
 - Lua
 - Firmware: iwlwifi-1000, iwlwifi-5150, rt61pci, rt73usb
 - comps.xml was cleaned up to match RedHat's
 - KVM was added for x86_64
 - Xfs is in the kernel for x86_64



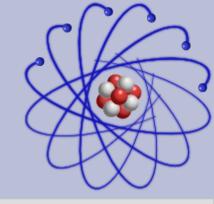
- S.L. Live 5.4 released November 2009
 - Web site is at www.livecd.ethz.ch
 - For i386 and x86_64
 - CD, DVD, mini-CD
 - Changes can be stored persistently on a storage device like an USB key
 - can be installed on USB key, or local hard disk
 - LiveCD can be mounted over NFS (diskless client)



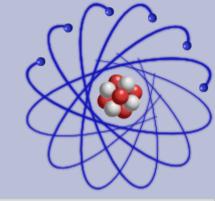
- Security updates continually released for all supported versions
- Fastbugs updates consistantly released weekly for latest versions of SL4 and SL5.
- Testing used more for errata that might cause problems.
- Rrdtool added ... and then removed.
- http: instead of https: is now the preference for www.scientificlinux.org, although people can use either.
- We had a few power outage problems.



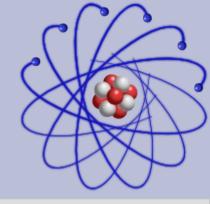
- New Scientific Linux Logo
 - Tweaked logo to allow it to scale better
 - Put up many sizes of the logo on the site
 - Created and put up many sizes of a banner
 - Created and put up many sizes of a "stamp"
 - Created Scientific Linux Shops
 - These shops are non-commission
 - http://scientificlinux.spreadshirt.com/
 - http://www.cafepress.com/ScientificLinux
 - I did two different shops because they both have their strengths and weaknesses



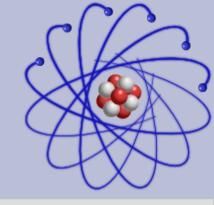
- Building SL 5.5
 - Still in the Beta phase
 - Still updating anaconda (the installer)
 - Still need to update the comps.xml
 - Still need to check our added packages
 - All the other various things we need to do for a release.



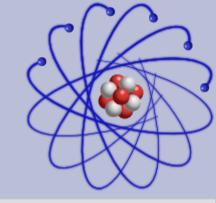
- Newer, faster, better distribution servers
 - New servers have been burned in
 - Their configurations are much more secure than the last ones.
 - We had some networking problems which delayed their deployment.
 - We then had some power problems that further delayed their deployment.
 - We are all set to change the alias's to the new servers, but I didn't want to do it right before leaving to Hepix.



- More automated build process
 - We are setting up Koji (the build environment that Fedora and EPEL use) for building SL6
 - We have the hardware setup and working.
 - We have a Koji Hub setup and working
 - Currently working on setting up more build nodes as well as a cvs/svn repository
 - When it is setup, we are hoping that this will allow other collaborators to be able to build for SL6



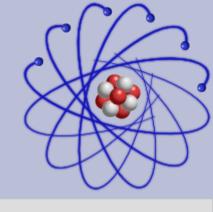
- Setting up a spacewalk server that possibly will allow us to show the security errata
 - Still in testing, this may not happen
 - We want something similar to
 - https://rhn.redhat.com/errata/
 - Maybe it could possibly be a master SL spacewalk server that others could sync from.



- Building SL 6 Pre-Alpha
 - RedHat released RHEL 6 Alpha April 21, 2010
 - We are still recompiling that, the first time
 - We are still testing out our Koji environment
 - After we have recompiled everything once, we will then recompile everything again on our new environment ... as much as we can.
 - In the past, RHEL releases couldn't build on themselves.
 - Although we will work on getting a Pre-Alpha version of SL6 out, our priority will be to get SL 5.5 released.

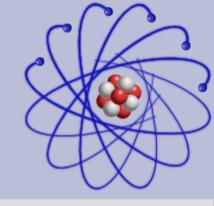
Scientific Linux

What we see in the future



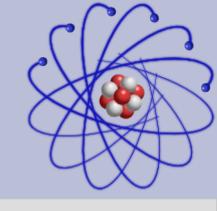
- Continue to have security updates for SL 3.0.9
 - This will continue until October 2010
- Continue to have security updates for all releases of SL 4 until SL 4 goes into legacy mode.
 - Due to the delay of RHEL 4.9, we have no date for when we will go into SL 4 legacy mode.
 - At that point SL 4.0-4.8 will be moved to obsolete and only SL 4.9 will have security updates.
- Continue to have security updates for all releases of SL 5
- Continue to have fastbug updates for only the latest release of SL 5

Scientific Linux What we see in the future



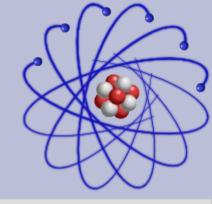
- Releasing S.L. 4.9
 - Estimate ?? 2010
- Releasing S.L. 5.5
 - Estimate June 2010
- When RHEL 6 comes out, releasing S.L. 6.0
 - Estimate February 2011
 - RHEL 6 beta April. 2010
 - RHEL 6 released late October or November 2010
 - This is a guess.
 - Red Hat will not release RHEL 6 untl "it is ready"
 - We will not release SL 6 until "it is ready"

Scientific Linux What we see in the future



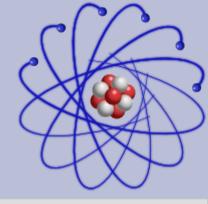
- Create errata.scientificlinux.org similar to http://rhn.redhat.com/errata/
 - This would be on our spacewalk server
- More automation of rpm checking and errata email.
 - This is progressing. The scripts and programs being written for our spacewalk server are a very large step forward in this direction.

Scientific Linux Plenary Discussion



- This is our chance to get direction from you, the users of Scientific Linux
 - What is important
 - What should we change
 - Discuss time lines and road maps

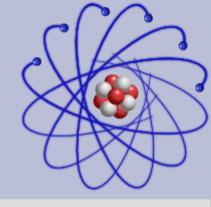
Scientific Linux Plenary Discussion



Other Topics?

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References



- http://www.scientificlinux.org/
- http://ftp.scientificlinux.org/linux/scientific/
- http://ftp1.scientificlinux.org/linux/scientific/
- http://ftp2.scientificlinux.org/linux/scientific/
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- http://www.livecd.ethz.ch/
- https://rhn.redhat.com/errata/
- http://press.redhat.com/2010/04/21/red-hat-enterpriselinux-6-beta-available-today-for-public-download/